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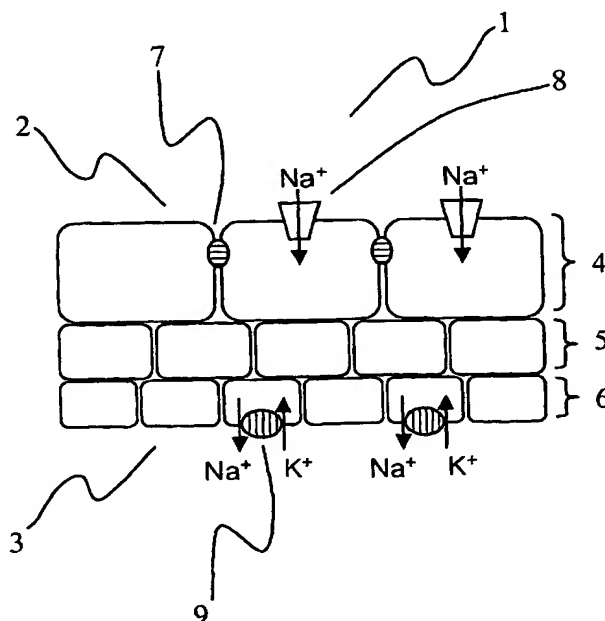
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Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES,*

[Continued on next page]

(54) Title: **BIOMIMETIC UROTHELIUM**



(57) Abstract: Urothelium is the specialised endothelium that lines much of the mammalian urinary tract. This invention relates to the field of *in vitro* urothelial culture. Previous methods produce tissue lacking much of the functionality of native urothelium. In this invention, stratified, differentiated mammalian urothelium (1) is produced by passing urothelial cells through a nutrient medium containing serum, and redispersed, before going on in a like medium to form said urothelium.



FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CROSS WILLIAM R ET AL: "The barrier function of in vitro generated human urothelium" JOURNAL OF UROLOGY, vol. 167, no. 4 Supplement, April 2002 (2002-04), page 32, XP0009025899 & ANNUAL MEETING OF THE AMERICAN UROLOGY ASSOCIATION, INC.; ORLANDO, FLORIDA, USA; MAY 25-30, 2002 ISSN: 0022-5347 abstract	1-3,5, 11,12
Y	----- -/--	6,8-10

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

PCT/GB 03/03291

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CROSS W R ET AL: "The barrier properties of in vitro generated normal human urothelium" BIOCHEMICAL SOCIETY TRANSACTIONS, vol. 30, no. 1, 2002, page A44, XP0009025900 & 675TH MEETING OF THE BIOCHEMICAL SOCIETY JOINT WITH THE PHYSIOLOGICAL SOCIETY; YORK, ENGLAND, UK; DECEMBER 18-19, 2001 ISSN: 0300-5127 abstract	1-3, 5, 11, 12
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INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KREFT MATEJA ERDANI ET AL: "Antigenic and ultrastructural markers associated with urothelial cytodifferentiation in primary explant outgrowths of mouse bladder" CELL BIOLOGY INTERNATIONAL, vol. 26, no. 1, 2002, pages 63-74, XP002270270 & ISSN: 1065-6995 the whole document	8
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A	SUGASI SITA ET AL: "In vitro engineering of human stratified urothelium: Analysis of its morphology and function" JOURNAL OF UROLOGY, vol. 164, no. 3 Part 2 of 2, September 2000 (2000-09), pages 951-957, XP0009025878 & ISSN: 0022-5347 the whole document	
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